

Unnamed Silt Loam 77-Ida-0528

Classification -- medial over loamy-skeletal, mixed Typic Vitrandept.

General Site Characteristics

Location -- Benewah County, Idaho, upper White Pine Creek, in the northwest $\frac{1}{4}$ of section 15, T.43N., R.1W.; described -- July 15, 1977, by Bill Sexton; topography -- steep mountain slopes, upper 1/3 of slope; slope -- 42 percent; aspect -- west, 290 degrees; elevation -- 1360 meters; parent material -- volcanic ash over quartzite; climate -- subhumid with cool, dry summers and cool, wet winters, estimated mean annual precipitation 102 to 114 centimeters, estimated mean annual temperature 7°C; drainage -- well drained; permeability -- medium; erosion -- none to slight; vegetation or use -- Thuja plicata/Pachistima myrsinites habitat type.

Pedon Description

01 5-0 centimeters (2-0 inches). Forest litter.

B211r 0-18 centimeters (0-7 inches). Brownish yellow (10YR 6/6) silt loam, brown (7.5YR 4/4) moist; moderate medium granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine interstitial pores; many very fine, fine and medium roots; clear wavy boundary.

B221r 18-48 centimeters (7-19 inches). Yellow (10YR 7/6) silt loam, yellowish brown (10YR 5/6) moist; moderate medium granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine, fine, medium and coarse roots; abrupt wavy boundary.

IIB23 48-61 centimeters (19-24 inches). Pale brown (10YR 6/3) gravelly fine sandy loam, brown (10YR 4/3) moist; moderate fine subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine tubular pores; common very fine and fine roots; few thin clay films in pores and on ped faces; 40 percent gravel; clear wavy boundary.

IIB24 61-91 centimeters (24-36 inches). Very pale brown (10YR 7/3) very gravelly fine sandy loam, brown (10YR 5/3) moist; moderate fine subangular blocky structure; soft, friable, slightly sticky and slightly plastic; many very fine tubular pores; common very fine and fine and few medium roots; 45 percent gravel and 5 percent cobble; gradual wavy boundary.

IIB3 91-127+ centimeters (36-50+ inches). Light gray (10YR 7/2) very gravelly fine sandy loam, brown (10YR 5/3) moist; weak fine subangular blocky structure; soft, friable, nonsticky and nonplastic; many very fine tubular pores; common very fine and fine roots; 45 percent gravel, 15 percent cobble and 5 percent stones.

Pedon: 32/qs/C
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Date: April 1978

Sample No.	Horizon	Depth cm	pH paste	ECX10 ³ mmhos/cm	PW at Saturation %	Available P ppm	Sesquioxides			
							Di-Citrate Fe	Extract Al	Pyrophosphate Fe	Extract Al
1	O1	5-0	-	-	-	-				
2	B21ir	0-18	6.4	0.1	71	1.0				
3	B22ir	18-48	6.0	0.1	80	4.6				
4	IIB23	48-61	5.7	0.2	23	0.3				
5	IIB24	61-91	5.7	0.3	21	0.0				
6	IIB3	91-127+	5.7	0.1	21	0.4				

Sample No.	Exchangeable Ions				Ext. Acidity H	CEC	Base Saturation %	OM	C	N	C:N ratio	Soil Fraction	NaF pH
	Ca	Mg	Na	K									
					meq/100 gms								
1	-	-	-	-	-	-	-	-	-	-	-	-	-
2	3.5	0.2	0.1	0.5	16.5	17.9	21	2.3	1.2	0.10	13	0.89	10.8
3	1.5	0.1	0.1	0.3	17.3	15.8	10	1.5	0.9	0.07	13	0.87	10.9
4	2.0	0.1	0.1	0.2	2.5	3.9	49	0.4	0.3	0.02	15	0.59	9.5
5	2.0	0.1	0.1	0.2	1.3	2.4	65	0.2	0.1	0.01	10	0.50	9.2
6	1.3	0.0	0.1	0.1	1.1	1.2	58	0.2	0.1	0.01	10	0.43	9.0

Remarks: CECs leached with 10% acidified NaCl.
 Nitrogens and CECs ran on Technicon.

Analysis by: Nancy Parrott

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Depth	Particle Size Distribution (mm)							Gravel & Stone			Textural Classes
	VCS	CS	MS	FS	VFS	TS	TSi	TC	> 2 mm		
	2-1.0	1-0.5	0.5-0.25	0.25-0.1	0.1-0.05	2-0.05	0.05-0.002	< 0.002	wt.	vol.	
cm	%							%			
5-0	-	-	-	-	-	-	-	-	-	-	-
0-18	1.06	1.19	0.75	2.95	9.09	15.04	77.69	7.27	12	3	Silt loam
18-48	0.44	0.74	0.55	3.57	11.46	16.76	76.88	6.36	13	4	Silt loam
48-61	8.80	6.90	4.96	15.49	10.04	46.20	47.99	5.81	41	35	Gr. fine sandy loam
61-91	5.84	6.64	5.92	18.18	11.25	47.83	47.15	5.02	50	43	V. gr. f. sandy loam
91-127+	6.51	7.38	6.93	23.19	16.08	60.10	36.99	2.92	57	53	V. gr. f. sandy loam

Depth	Silt Size Distribution (mm)			Bulk Density		Water Content		Liquid	Plastic	Plastic
	CoSi	MSi	FSi	Clod	Core	1/3	15	Limit	Limit	Index
	0.05-0.02	0.02-0.005	0.005-0.002	g/cc		%		%		
cm	%			g/cc		%		%		
5-0	-	-	-	-	-	-	-	-	-	-
0-18				no clods	0.72	48.6	10.9			
18-48				no clods	0.77	48.7	20.6			
48-61				2.04	no core	18.2	7.6			
61-91				2.02	no core	17.0	6.7			
91-127+				2.28	no core	13.6	2.1			

Remarks: Centrifuge method, 5% Na hexametaphosphate added, sonified.
 When two values for BD present, they were averaged to compute
 % vol. gravel.

Analysis by: Anita Falen